

**Notice of Allowability**

Application No.

10/630,437

Examiner

Sai-Ming Chan

Applicant(s)

LIU, YONGHE

Art Unit

2609

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the patent application filed on July 30, 2003.
2. ☒ The allowed claim(s) is/are 1-29.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 20070404.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 7/30/2003
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 20070404.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

## **DETAILED ACTION**

### ***EXAMINER'S AMENDMENT***

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with name on date.

The application has been amended as follows:

#### ***In the Claims***

- a) On line 1 of claim 25, "25" has been replaced with -24--;
- b) On line 1 of claim 29, "22" has been replaced with -24--.

#### ***Information Disclosure Statement***

The information disclosure statement (IDS) submitted on July30, 2003 has been considered by the Examiner and made of record in the application file.

#### ***Drawings***

The drawings are objected to because in *fig. 11*, it says *goto 1130 if Y and goto 1150 if N*. The correct flow should be *-goto 1150 if Y and goto 1130 if N-*. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office

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action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Allowable Subject Matter***

Claims 1-29 are allowed.

The following is an examiner's statement of reasons for allowance:

Consider claims 1, the best prior art found during the examination of the present application, **Burgess, Jr. et al (U.S. Patent # 6449694)**, in view of **Karsi et al. (U.S. Patent # 7073079 )** clearly disclose and show a system for saving power (Burgess, Jr. et al. column 6, lines 40-47; abstract, lines 1-14) comprising:

a partial address (Burgess, Jr. et al. fig. 4 (440 & 450)) associated with a subset (Burgess, Jr. et al. abstract, lines 6-9) of the destination MAC address of a receiving station in the wireless network.

In the same field of endeavor, Karsi et al. clearly shows a wireless system (column 2, lines 54-58) and the physical layer (fig. 1 (145 & 185)).

However, Burgess, Jr. et., as modified by Karsi et. al., fails to show a PHY layer filtering protocol configured to generate and write the partial address into a PHY layer header portion of a frame of a sending station in the wireless network, or configured to read the partial address from the PHY layer header portion of a frame of the receiving station upon receipt of a data frame. In addition, Burgess, Jr. et., as modified by Karsi et. al., fails to show the receiving stations having the PHY layer filtering protocol determine at the PHY layer whether the partial address received in the PHY layer header portion of a received frame matches an internal partial address. Also Burgess, Jr. et., as modified by Karsi et. al., fails to show the receiving stations reject the received frame if the partial address in the received frame is a predetermined value.

Therefore claim 1 is considered novel and non-obvious.

Consider claim 18, **Burgess, Jr. et al (U.S. Patent # 6,449,694)** clearly disclose and show a system for saving power (column 6, lines 40-47; abstract, lines 1-14) as described.

However, Burgess, Jr, et al., fails to disclose a partial address associated with a subset of a destination MAC address of a receiving station in the wireless network; writing the partial address in a PHY layer header portion of a data frame.

Therefore claim 18 is considered novel and non-obvious.

Consider claim 24, **Burgess, Jr. et al (U.S. Patent # 6,449,694)** clearly disclose and show a system for saving power as described.

However, Burgess, Jr, et al., fails to disclose the storing a partial address in a PHY layer of a station, the partial address associated with a subset of the stations' own MAC address; receiving a data frame in the PHY layer, the data frame containing a partial address in a PHY layer header portion thereof; determining whether the partial address of the received data frame matches the partial address stored in the PHY layer of the station; and rejecting the data frame if the partial addresses do not match.

Therefore claim 18 is considered novel and non-obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

Any response to this Office Action should be **faxed to (571) 273-8300 or mailed to:**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**Hand-delivered responses** should be brought to

Customer Service Window  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Sai-Ming Chan whose telephone number is (571) 270-1769. The Examiner can normally be reached on Monday-Thursday from 6:30am to 5:00pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Rafael Pérez-Gutiérrez can be reached on (571) 272-7915. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

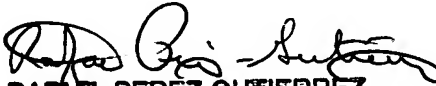
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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 571-272-4100.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

**Sai-Ming Chan**  
S.C./ sc

April 5, 2007

  
RAFAEL PEREZ-GUTIERREZ  
SUPERVISORY PATENT EXAMINER  
4/9/07